

Appl. No. 10/050,260
Amendment and/or Response
Reply to Office action of 12 February 2003

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A lighting device, ~~which comprises~~
comprising:

a light emission surface;

~~and~~ a plurality of substantially point-shaped light
sources; and

~~which is characterized by an optical waveguide plate (1)~~
into which a plurality of cavities ~~(20)~~ is provided, each
cavity ~~(20)~~ accommodating a light source ~~(21)~~, which cavities
each comprise an upper side ~~(203)~~ facing the light emission
surface ~~(11)~~ and side walls ~~(201)~~, said upper side ~~(203)~~ being
covered with a first reflecting layer ~~(204)~~, while the coupling
of the light into the optical waveguide plate takes place
through the side walls ~~(201)~~.

2. (Currently amended) ~~A~~ The lighting device ~~as claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the side walls
~~(201)~~ of the cavities ~~(20)~~ are substantially perpendicular to
the light emission surface ~~(11)~~, and the upper sides ~~(203)~~ of
the cavities ~~(20)~~ are substantially parallel to the light
emission surface ~~(11)~~.

3. (Currently amended) ~~A~~ The lighting device ~~as claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the cavities ~~(20)~~
are each covered with a second reflecting layer ~~(121)~~ on their
lower side opposite to their upper side ~~(203)~~.

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4. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the cavities ~~(20)~~
are substantially cylindrical in shape.

5. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the cavities ~~(20)~~
are provided in the lower side ~~(12)~~ of the optical waveguide
plate ~~(1)~~.

6. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the light sources
~~(21)~~ are light-emitting diodes.

7. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 3, ~~characterized in that wherein~~ the second
reflecting layer ~~(121)~~ extends over the side faces ~~(13 to 16)~~
and the lower side ~~(12)~~ of the optical waveguide plate ~~(1)~~.

8. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 7, ~~characterized in that wherein~~ the second
reflecting layer ~~(121)~~ is at a distance from the optical
waveguide plate ~~(1)~~, which distance constitutes an air gap.

9. (Currently amended) A The lighting device as ~~claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the first
reflecting layer ~~(204)~~ extends further in horizontal direction
with a first portion ~~(204a)~~ into the optical waveguide plate
~~(1)~~.

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10. (Currently amended) A The lighting device ~~as claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the first
reflecting layer ~~(204)~~ extends further with a second portion
~~(204b)~~ along the side walls ~~(201)~~ of the cavity ~~(20)~~.

11. (Currently amended) A The lighting device ~~as claimed~~
~~in of~~ claim 1, ~~characterized in that wherein~~ the edges of the
cavities ~~(20)~~ situated opposite the upper side ~~(203)~~ are
surrounded by a ~~third~~ another reflecting layer ~~(205)~~.

12. (Currently amended) A liquid crystal display device
~~with a~~ incorporating the lighting device ~~as claimed in of~~
claim 1.